

1) HORTICULTURE

Question No. 1 / Question ID 1548

Marks: 4.00

The origin of wound induced De Novo adventitious root in citrus is

1. Cambium

2. Phloem

3. Bark and Basal callus

4. Nodal Segment
- ☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 2 / Question ID 1573

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Vegetable Crop	Variety/Hybrid
(A) Tomato	(I) Kashi Arun
(B) French bean	(II) Kashi Amul
(C) Carrot	(III) Kashi Himani
(D) Brinjal	(IV) Kashi Baingani

Choose the *correct* answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)

2. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)

3. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)

4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
- ☐ 1

☐ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 3 / Question ID 1615

Marks: 4.00

Which of the following is a largest Indian orchid?

- 1. *Bletia purpurea*
- 2. *Aerides multiflorum*
- 3. *Cymbidium giganteum*
- 4. *Galeola falconeri*

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 4 / Question ID 1534 Marks: 4.00

Choose the right sequence (decreasing order) about India’s share of the following fruits in global fruit production

- (A) Mango
- (B) Grapes
- (C) Banana
- (D) Citrus

Choose the *correct* answer from the options given below:

- 1. (A), (B), (C), (D).
- 2. (A), (C), (D), (B).
- 3. (B), (A), (D), (C).
- 4. (C), (B), (D), (A).

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 5 / Question ID 1544 Marks: 4.00

Statistical analysis for determining the adaptability of genotypes in different environment is

- 1. Correlation analysis
- 2. Line × Tester
- 3. D² Mahalanobis
- 4. Stability analysis

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Improper filling physiological disorder of banana is due to the deficiency of

1. Iron
2. Potassium
3. Copper
4. Magnesium

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Making a notch below a bud by removing a wedge shaped piece of bark is known as nicking and it helps in formation of fruit bud

Reason (R) : Nicking ensures accumulation of carbohydrates from the leaves to the bud which help in the formation of fruit bud

In light of the above statements, choose the **correct** answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is **NOT** the correct explanation of (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Which of the following tree is associated with the life of Lord 'Krishna'?

1. *Salix babylonica*
2. *Anthocephalus cadamba*
3. *Saraca indica*
4. *Michelia champaca*

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Match **List-I** with **List-II**

List-I	List-II
Crop	Variety
(A) Turmeric	(I) Pant C-1
(B) Coriander	(II) Pant Ragini
(C) Chilli	(III) Pant Peetabh
(D) Fenugreek	(IV) Pant Haritima

Choose the *correct* answer from the options given below:

1.

(A) - (III), (B) - (I), (C) - (IV), (D) - (II)
2.

(A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3.

(A) - (III), (B) - (II), (C) - (I), (D) - (IV)
4.

(A) - (III), (B) - (IV), (C) - (I), (D) - (II)
- ☐

1
- ☐

2
- ☐

3
- ☒

4 (Chosen Option)

Which of the following is the most common rootstock for budding in rose under South Indian conditions?

1.

Rosa foetida
2.

Rosa multiflora
3.

Rosa lucida
4.

Rosa indicavar.odorata
- ☐

1
- ☒

2 (Chosen Option)
- ☐

3
- ☐

4

Which of the following garden styles are developed on the basis of their respective ideas of heaven?

- (A) Mughal garden style
- (B) Persian Garden style
- (C) English Garden style
- (D) Japanese garden style

Choose the **correct** answer from the options given below:

- 1. (A) and (C) only.
- 2. (A) and (D) only.
- 3. (B) and (D) only.
- 4. (C) and (D) only.

☐ 1

☐ 2

☐ 3

☒ 4 (Chosen Option)

Question No. 12 / Question ID 1554 Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other is labelled as **Reason (R)**.

Assertion (A) : Nucellar embryony has been a major obstacle in citrus breeding

Reason (R) : Nucellar embryos arise from somatic cells of the nucellus,they are asexual progenies and not required by the breeder.

In light of above statements, choose the **most appropriate** answers from the options given below.

- 1. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- 2. Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- 3. (A) is correct but (R) is not correct
- 4. (A) is not correct but (R) is correct

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 13 / Question ID 1572 Marks: 4.00

What is the basic chromosome number is present in C genome of *Brassica oleracea* ?

1. $x = 18$
2. $x = 9$
3. $x = 36$
4. $x = 16$

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 14 / Question ID 1569

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Long day types onions are cultivated in temperate or hilly regions.

Reason (R) : The onion crop is more sensitive to temperature that plays more important role in bulb formation than photoperiod.

In light of the above statements, choose the *most appropriate* answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 15 / Question ID 1542

Marks: 4.00

Polyembryony is controlled by?

1. Dominant gene
2. Recessive gene
3. Single pair of gene
4. Self sterility

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 16 / Question ID 1609

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(Flower Crop)	(Basic chromosome number)
(A) Rose	(I) X= 9
(B) Gladiolus	(II) X= 12
(C) Marigold	(III) X= 15
(D) Chrysanthemum	(IV) X= 7

Choose the *correct* answer from the options given below:

- 1. (A) – (I), (B) – (II), (C) – (IV), (D) – (III)
- 2. (A) – (III), (B) – (IV), (C) – (II), (D) – (I)
- 3. (A) – (II), (B) – (III), (C) – (IV), (D) – (I)
- 4. (A) – (IV), (B) – (III), (C) – (II), (D) – (I)

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 17 / Question ID 1567 Marks: 4.00

The recommended optimum plant density for sweet potato has been recommended by ICAR- CTCRI is ?

- 1. 73000 plants/ha
- 2. 63000 plants/ha
- 3. 83000 plants /ha
- 4. 93000 plants/ha

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 18 / Question ID 1571 Marks: 4.00

Kashi Chayan is the variety of

- 1. Cowpea
- 2. French bean
- 3. Tomato
- 4. Chilli

- ☐ 1

- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 19 / Question ID 1501

Marks: 4.00

The wheat grain can be stored well at a moisture percentage less than

- 1. 20 %
- 2. 15 %
- 3. 10 %
- 4. 5 %

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 20 / Question ID 1543

Marks: 4.00

Which mango cultivar imparts prominent beak character to the progenies?

- 1. Manjeera
- 2. Totapuri
- 3. Banganpalli
- 4. Amrapalli

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 21 / Question ID 1604

Marks: 4.00

Which of the following are cool season turf grasses?

- (A) *Cynodon dactylon*
- (B) *Agrostis palustris*
- (C) *Paspalum notatum*
- (D) *Lolium perene*

Choose the **correct** answer from the options given below:

- 1. (A) and (B) only.
- 2. (A) and (C) only.
- 3. (B) and (D) only. 
- 4. (C) and (D) only.

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Given below are two statements, one is labelled as **Assertion (A)** and other is labelled as **Reason (R)**

Assertion (A): Germplasm can be preserved for longer period under cryopreservation at -296°C .

Reason (R) : There is minimal loss of genetic information through cryopreservation

In light of above statements, choose the *most appropriate* answers from the options given below.

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is not the correct explanation of (A).
3. (A) is correct but (R) is not correct
4. (A) is not correct but (R) is correct

- ☐ 1
☐ 2
☐ 3
☐ 4 (Chosen Option)

Variety 'Pusa Sharda' belongs to which crop that can be stored for 15-20 days under room temperature ?

1. Tomato
2. Cucumber
3. Muskmelon
4. Bitter gourd

- ☐ 1
☐ 2
☐ 3 (Chosen Option)
☐ 4

In guava red spots on the newly emerged leaves and dry and brittle leaves indicates the deficiency of

1. Boron
2. Zinc
3. Phosphorus
4. Potassium

- ☐ 1
☐ 2
☐ 3 (Chosen Option)

Question No. 25 / Question ID 1612

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Calyx splitting is a major disorder of carnation and in this, calyx split when the flowers start to open.

Reason (R) : This is attributed to various factors such as over feeding, varietal character, high temperature, a sharp drop in night temperature, a low nitrogen level or boron deficiency.

In light of the above statements, choose the *most appropriate* answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 26 / Question ID 1603

Marks: 4.00

Plants which possess special structures such as thorns, rootlets, tendrils, etc to climb over a support, are called as.

1. Seasonal flowers
2. Trees
3. Shrubs
4. Climbers

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4 (Chosen Option)

Question No. 27 / Question ID 1537

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Physiological disorder	Fruit crop
(A) Translucent flesh	(I) Mango
(B) Internal breakdown	(II) Pineapple
(C) Gooseflesh	(III) Pomegranate
(D) Girdle necrosis	(IV) Banana

Choose the *correct* answer from the options given below:

- 1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- 2. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
- 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 28 / Question ID 1565 Marks: 4.00

Which of the following is F₁ hybrid of watermelon ?

- 1. Arka Akash
- 2. Arka Shyama
- 3. Arka Manik
- 4. Arka Muthu

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 29 / Question ID 1523 Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Variety	Fruit
(A) Arka Majestic	(I) Mango
(B) Phule Arakta	(II) Guava
(C) Arka Amulya	(III) Pomegranate
(D) Manjeera	(IV) Grapes

Choose the *correct* answer from the options given below:

- 1. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
- 2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Given below are two statements:

- Statement (I) :** Mutagen induced male sterility is heritable and male sterility induced by gametocide is non-heritable.
- Statement (II) :** Heterozygous population derived in garden pea will not segregate on selfing.

In light of the above statements, choose the *most appropriate* answer from the options given below.

- 1. Both **Statement (I)** and **Statement (II)** are true.
- 2. Both **Statement (I)** and **Statement (II)** are false.
- 3. **Statement (I)** is true but **Statement (II)** is false.
- 4. **Statement (I)** is false but **Statement (II)** is true.

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Which of the following climber is categorized as heavy climber?

- 1. *Petrea volubilis*
- 2. *Quisqualis indica*
- 3. *Aristolochia elegans*
- 4. *Lonicera japonica*

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 32 / Question ID 1546

Marks: 4.00

The grape vine flowers are borne in clusters or panicles on

- 1. 1-2 node
- 2. 3-5 node
- 3. 5-7 node
- 4. 8-10 node

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 33 / Question ID 1549

Marks: 4.00

Given below are two statements:

Statement (I): Dwarfing interstocks in apple are used to avoid the undesirable root system of a dwarfing root stock

Statement (II): *Mallus Sikimmensis* is largely used as interstock for the said purpose

In light of the above statements, choose the **most appropriate** answer from the options given below.

- 1. Both **Statement (I)** and **Statement (II)** are true. 
- 2. Both **Statement (I)** and **Statement (II)** are false.
- 3. **Statement (I)** is true but **Statement (II)** is false.
- 4. **Statement (I)** is false but **Statement (II)** is true.

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 34 / Question ID 1529

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Establishment of cashew orchards by seedling is not recommended
Reason (R) : Cashew is a cross- pollinated crop

In light of the above statements, choose the *correct* answer from the options given below.

- 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 
 - 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
 - 3. (A) is true but (R) is false.
 - 4. (A) is false but (R) is true.
- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 35 / Question ID 1502 Marks: 4.00

Reducing weed growth by manipulating water level in water bodies, light intensities, nutrient availability, competitive displacement. etc. is known as

Preventive weed management

- 1. Mechanical weed management
 - 2. Ecological weed management
 - 3. Cultural weed management
- ☐ 1
☒ 2 (Chosen Option)
☐ 3
☐ 4

Question No. 36 / Question ID 1608 Marks: 4.00

Which of the following shrubs are grown for their fragrant flowers?

- (A) *Duranta plumieri*
- (B) *Cestrum nocturnum*
- (C) *Acalypha hispida*
- (D) *Portlandia grandiflora*

Choose the **correct** answer from the options given below:

- 1. (A) and (C) only.
- 2. (B) and (C) only.
- 3. (B) and (D) only.
- 4. (C) and (D) only.

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 37 / Question ID 1578

Marks: 4.00

What is the centre of origin of Fenugreek ?

- 1. South East Europe and West Asia
- 2. China
- 3. Indo-Myanmar region
- 4. North and South America

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 38 / Question ID 1575

Marks: 4.00

Which of the following is NOT a triploid hybrid or triploid variety of Tapioca ?

- 1. Sree Sahya
- 2. Sree Athulya
- 3. Sree Apoorva
- 4. Sree harsha

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 39 / Question ID 1570

Marks: 4.00

On the basis of anthesis time of vegetable crops

- (A) Tomato
- (B) Muskmelon
- (C) Summer Squash
- (D) Ridge gourd

Choose the *correct* answer from the options according to ascending order of athesis time:

- 1. (B), (C), (D), (A).
- 2. (A), (B), (C), (D).
- 3. (B), (A), (D), (C).
- 4. (C), (B), (A), (D).

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 40 / Question ID 1511

Marks: 4.00

PramparagatKrishiVikasYojana (PKVY) was launched during the year?

- 1. 2000
- 2. 2005
- 3. 2010
- 4. 2015

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 41 / Question ID 1532

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Disease	Indicator plant
(A) Tristeza	(I) Kagzi lime
(B) Exocortis	(II) Rangpur lime
(C) Psorosis	(III) Sweet orange var. Pineapple
(D) Greening	(IV) Sweet orange var.Valencia

Choose the *correct* answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
3. (A) - (I), (B) - (IV), (C) - (II), (D) - (III)
4. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 42 / Question ID 1513

Marks: 4.00

The calcium content in healthy plant ranges between

1. 0.05-5.0%
2. 0.1-0.3.0%
3. 0.2-1.0% 
4. 0.5-5.0%

- ☐ 1
- ☐ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 43 / Question ID 1545

Marks: 4.00

Banana are placed in the order

1. Rhamnales
2. Zingerbales
3. Myrtales
4. Rosales

- ☐ 1
- ☐ 2 (Chosen Option)

- ☐ 3
- ☐ 4

Question No. 44 / Question ID 1538

Marks: 4.00

Which Apple cultivar is a good pollinizer for all the delicious groups ?

- 1. Jonathan
- 2. Jona Gold
- 3. Golden Delicious
- 4. Greensleeves

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 45 / Question ID 1515

Marks: 4.00

Which Irrigation system is useful for areas having water scarcity and salt problems ?

- 1. Open cannel
- 2. Sprinkler
- 3. Micro sprinkler
- 4. Drip application

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 46 / Question ID 1503

Marks: 4.00

Dicladispa armegera is major pest of

- 1. Rice
- 2. Wheat
- 3. Sugarcane
- 4. Gram

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 47 / Question ID 1618

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Shrubs or trees planted at an irregular interval to form a discontinuous screen is known as hedge.

Reason (R) : An ideal hedge is having uniform dense growth from base to top and it can be achieved by getting more or less uniform supply of water, essential elements and proper sunshine.

In light of the above statements, choose the *most appropriate* answer from the options given below:

1.

Both (A) and (R) are correct and (R) is the correct explanation of (A).
2.

Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3.

(A) is correct but (R) is not correct.
4.

(A) is not correct but (R) is correct.
- ☐

1
- ☐

2
- ☐

3
- ☒

4 (Chosen Option)

Question No. 48 / Question ID 1593

Marks: 4.00

Which of the following have most desirable traits for edible pod ?

1.

Parchment free, thin-walled pods
2.

Semi-parchment, thick-walled pods
3.

Parchment free, thick-walled pods
4.

Thin walled pods with parchment layer

- ☒

1 (Chosen Option)
- ☐

2
- ☐

3
- ☐

4

Question No. 49 / Question ID 1560

Marks: 4.00

Sequence the mango varieties according to their parentage

- (A) Amrapali × Sensation
- (B) Dashehari × Sensation
- (C) Amrapali × Vanraj
- (D) Amrapali × Lal Sundari

Choose the *correct* answer from the options given below:

- 1. Pusa Lalima – Pusa Peetamber – Arunika – Pusa Shreshth
- 2. Pusa Shreshth Pusa Lalima – Arunika – Pusa Peetamber
- 3. Pusa Shreshth – Arunika – Pusa Peetamber – Pusa Lalima
- 4. Pusa Shreshth – Pusa Lalima – Arunika – Pusa Peetamber

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 50 / Question ID 1592

Marks: 4.00

A dried drupe of black pepper is known as

- 1. pepper corn
- 2. pepper berry
- 3. pepper spikes
- 4. pepper leaf

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 51 / Question ID 1555

Marks: 4.00

Match List I with List II pear rootstock for their salient characteristics

List I	List II
(A) <i>Pyrus betulifolia</i>	(I) Blight resistant rootstock
(B) <i>Cydonia oblonga</i>	(II) Black end susceptible rootstock
(C) <i>Pyrus calleryana</i>	(III) Dwarfing rootstock
(D) <i>Pyrus pyrifolia</i>	(IV) Alkaline tolerant rootstock

Choose the **correct** answer from the options given below:

- 1. (A) – (I), (B) – (II), (C) – (III), (D) – (IV)
- 2. (A) – (III), (B) – (IV), (C) – (II), (D) – (I)
- 3. (A) – (IV), (B) – (III), (C) – (I), (D) – (II)
- 4. (A) – (II), (B) – (I), (C) – (IV), (D) – (III)

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 52 / Question ID 1589 Marks: 4.00

Which of the following is a major pest of the early summer cauliflower ?

- 1. Diamond back moth
- 2. *Spodoptera litura*
- 3. Cabbage butterfly
- 4. Aphid

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 53 / Question ID 1510 Marks: 4.00

Life cycle of a normal cultivated rice from germination to physiological maturity is completed in

- 1. 80-90 Days
- 2. 90-100 days
- 3. 110-210 Days
- 4. 250-260 Days

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)

Question No. 54 / Question ID 1561

Marks: 4.00

Powdery mildew resistant single dominant gene (Er-3) derived from which pea species?

1. *Pisum abyssinicum*
2. *Pisum fulvum*
3. *Pisum elatius*
4. *Pisum sativum*

- 1
- 2 (Chosen Option)
- 3
- 4

Question No. 55 / Question ID 1550

Marks: 4.00

Given below are two statements:

Statement (I): The tall coconut cultivars are referred as var. typica, while dwarf type as var. Nana

Statement (II): Tall cultivars are the resultant of out breeding while dwarf are the resultant of inbreeding

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

- 1 (Chosen Option)
- 2
- 3
- 4

Question No. 56 / Question ID 1607

Marks: 4.00

Which of the following is a striped variety of standard carnation?

1. Darling
2. Picaro
3. Super Star
4. Challenger

- 1
- 2
- 3
- 4

Given below are two statements:

Statement (I) : Lettuce is most common among leafy vegetables that can be easily grown in hydroponic system.

Statement (II) : Life cycle of hydroponic lettuce is long as compared to traditionally grown lettuce.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Which of the following annual flower crop is used as green filler?

1. Nasturtium
2. Rose
3. Gypsophila
4. Carnation

- ☐ 1
☐ 2
☒ 3 (Chosen Option)
☐ 4

Match List I with List II with respect to salient characteristics of mango cultivar

List I	List II
(A) Suvarnarekha	(I) Regular bearing
(B) Rumani	(II) Imparting tolerance to Bacterial Canker
(C) Banganpalli	(III) Good donor for skin colour
(D) Bombay green	(IV) Good source for dwarfness

Choose the *correct* answer from the options given below:

- 1. (A) – (I), (B) – (III), (C) – (IV), (D) – (II)
- 2. (A) – (III), (B) – (IV), (C) – (I), (D) – (II)
- 3. (A) – (IV), (B) – (II), (C) – (III), (D) – (I)
- 4. (A) – (II), (B) – (I), (C) – (IV), (D) – (III)

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 60 / Question ID 1584 Marks: 4.00

What is the spacing (row to row & plant to plant) of extra early varieties of cauliflower?

- 1. 45 cm x 30 cm
- 2. 60 cm x 45 cm
- 3. 60 cm x 30 cm
- 4. 75 cm x 60 cm

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 61 / Question ID 1585 Marks: 4.00

What is the causal organism of early blight of potato ?

- 1. *Alternaria solani*
- 2. *Phytophthora infestans*
- 3. *Rhizoctonia solani*
- 4. *Synchytrium endobioticum*

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 62 / Question ID 1564

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Ditch system of planting is common planting system in *Diara* land cultivation of cucurbitaceous crops.

Reason (R) : To manage the availability of moisture and higher temperature, the trenches are dug in North-West direction

In light of the above statements, choose the *most appropriate* answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 63 / Question ID 1504

Marks: 4.00

Given below are two statements:

Statement (I) : In India ratoon crop of sugarcane occupies about 50-55% of total cane area but contributes to only 30-35% of the total cane production

Statement (II) : The varieties possessing high regeneration capacity are required for ratooning and optimum temperature for quick sprouting of stubbles is around 27°C

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 64 / Question ID 1531

Marks: 4.00

Dwarf palms are

- (A) Referred as var. nana
- (B) Short stature, 8-10 M at 20 years of age
- (C) Start bearing at the age of 3-4 years
- (D) Have long productive life of more than 100 years
- (E) Chowghat Green Dawrf and Chowghat orange are popular cultivars in India

Choose the *correct* answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (A), (B), (C) and (E) only.
- 3. (A), (B), (C) and (D). only
- 4. (B), (C), (D) and (E) only.

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 65 / Question ID 1516

Marks: 4.00

Given below are two statements:

Statement (I) : ArkaMridula is a white pulp guava variety

Statement (II) : It is seedling selection from Allahabad Safeda

In light of the above statements, choose the *most appropriate* answer from the options given below.

- 1. Both **Statement (I)** and **Statement (II)** are true.
- 2. Both **Statement (I)** and **Statement (II)** are false.
- 3. **Statement (I)** is true but **Statement (II)** is false.
- 4. **Statement (I)** is false but **Statement (II)** is true.

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 66 / Question ID 1551

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other is labelled as **Reason (R)**

Assertion (A) : Clonal selection followed by vegetative propagation is a major strategy for improvement of perennial crops.

Reason (R) : A large genetic advance can be made in a single step without the multiple generation of seed propagation required of seed propagated cultivars.

In light of above statements, choose the *most appropriate* answers from the options given below.

1.

Both (A) and (R) are correct and (R) is the correct explanation of (A)
2.

Both (A) and (R) are correct but (R) is not the correct explanation of (A)
3.

(A) is correct but (R) is not correct
4.

(A) is not correct but (R) is correct
- ☐

1 (Chosen Option)
- ☐

2
- ☐

3
- ☐

4

Question No. 67 / Question ID 1533

Marks: 4.00

Asepsis is

1.

Completely destroying the microorganism by high temperature
2.

Keeping microorganism out from entering into food
3.

Removal of microorganism from food by filtering
4.

It is a type of freezing
- ☐

1
- ☐

2 (Chosen Option)
- ☐

3
- ☐

4

Question No. 68 / Question ID 1508

Marks: 4.00

Carbohydrates are

- (A) Molecules that contain carbon, hydrogen and oxygen atoms in specific ratios.
- (B) Sparing protein
- (C) Produce energy
- (D) Prevent lipid metabolism

Choose the **correct** answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (A), (B) and (C) only.
- 3. (A), (B), (C) and (D).
- 4. (B), (C) and (D) only.

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 69 / Question ID 1512

Marks: 4.00

Micronutrient that detoxifies super oxide free radicals, proteins and lipids against oxidation is

- 1. Zinc
- 2. Boron
- 3. Molybdenum
- 4. Chlorine

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 70 / Question ID 1620

Marks: 4.00

Which of the following annuals are directly sown in the beds?

- (A) Pansy
- (B) Nasturtium
- (C) Stock
- (D) Hollyhock

Choose the **correct** answer from the options given below:

- 1. (A) and (B) only.
- 2. (A) and (C) only.
- 3. (A) and (D) only.
- 4. (B) and (D) only.

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 71 / Question ID 1562

Marks: 4.00

Which of the following biocontrol agent is recommended to control diamond back moth (DBM), serious pests of cruciferous crops particularly cabbage and cauliflower ?

- 1. *Brachymeria lasus*
- 2. *Cotesia plutellae*
- 3. *Trichogramma pretiosum*
- 4. *Chrysoperla zastrowiillemi*

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 72 / Question ID 1507

Marks: 4.00

Respiration

- (A) Occurs only in cells with chloroplasts
- (B) Oxygen is used and water is produced
- (C) Occurs in dark and light
- (D) Occurs in light only

Choose the **correct** answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (A) and (C) only.
- 3. (A), (B), (C) and (D).
- 4. (B), (C) and (D) only.

☐ 1

☒ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 73 / Question ID 1506

Marks: 4.00

The world’s first cytoplasmic male sterility (CMS) based pigeonpea hybrid is :

- 1. ICPH2671/Pushkal
- 2. Pargati
- 3. ICPL85063/Laxmi
- 4. Durga/ICPL84031

☒ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 74 / Question ID 1541

Marks: 4.00

Which *Mallus* species is known as Siberian crab?

- 1. *M. baccata*
- 2. *M. coronaria*
- 3. *M. floribunda*
- 4. *M. angustifolia*

☐ 1

☐ 2

☐ 3

☒ 4 (Chosen Option)

Question No. 75 / Question ID 1605

Marks: 4.00

Given below are two statements:

Statement (I) : Self pollination leads to a very rapid increase in homozygosity and self pollinated crops do not show inbreeding depression.

Statement (II) : Cross pollination preserves and promotes heterozygosity in a population and shows mild to severe inbreeding depression.

In light of the above statements, choose the *most appropriate* answer from the options given below.

- 1. Both **Statement (I)** and **Statement (II)** are correct.
- 2. Both **Statement (I)** and **Statement (II)** are incorrect.
- 3. **Statement (I)** is correct but **Statement (II)** is incorrect.
- 4. **Statement (I)** is incorrect but **Statement (II)** is correct.

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 76 / Question ID 1588 Marks: 4.00

What is the family of Celery ?

- 1. Apiaceae
- 2. Asteraceae
- 3. Poaceae
- 4. Amaryllidaceae

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 77 / Question ID 1509 Marks: 4.00

Which country proposed UN for declaring the year 2023 as International year of millets?

- 1. Ethiopia
- 2. China
- 3. India
- 4. Nigeria

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 78 / Question ID 1524 Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Most vegetables except onion and garlic are blanched before drying

Reason (R) : Blanching stops the action of enzymes, which are not killed by sun drying

In light of the above statements, choose the *correct* answer from the options given below.

- 1. Both (A) and (R) are true and (R) is the correct explanation of (A).
- 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- 3. (A) is true but (R) is false.
- 4. (A) is false but (R) is true.

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 79 / Question ID 1552 Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other is labelled as **Reason (R)**

Assertion (A) : 2, 3, 5 triphenyl tetrazolium chloride (TTC) is used for determining the seed viability

Reason(R) : Living tissue changes the TTC to an insoluble red compound formazan

- 1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- 2. Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- 3. (A) is correct but (R) is not correct
- 4. (A) is not correct but (R) is correct

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 80 / Question ID 1535 Marks: 4.00

Calculate the number of plants in qunicunx system of planting in one hectare area when row to row and plant to plant distance is 10 m

- 1. 90
 - 2. 150
 - 3. 181
 - 4. 200
- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 81 / Question ID 1521Marks: 4.00

Self unfruitful cultivar of peach

- 1. J.H. Hale
 - 2. Maygold
 - 3. Sharbati
 - 4. Candor
- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 82 / Question ID 1602Marks: 4.00

Given below are two statements:

Statement (I) : Self-incompatibility was first reported by Koelreuter and in case of self- incompatibility, pollen grains fail to germinate on the stigma of flower that produced them.

Statement (II) : In heteromorphic system of self-incompatibility, flowers of different incompatibility groups are different in morphology.

In light of the above statements, choose the *most appropriate* answer from the options given below.

- 1. Both **Statement (I)** and **Statement (II)** are correct.
 - 2. Both **Statement (I)** and **Statement (II)** are incorrect.
 - 3. **Statement (I)** is correct but **Statement (II)** is incorrect.
 - 4. **Statement (I)** is incorrect but **Statement (II)** is correct.
- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 83 / Question ID 1601Marks: 4.00

Which of the following are the elements of garden and landscape designs?

- (A) Line
- (B) Balance
- (C) Rhythm
- (D) Style

Choose the **correct** answer from the options given below:

1. (A) and (C) only.
2. (A) and (B) only.
3. (B) and (C) only.
4. (A) and (D) only.

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 84 / Question ID 1568

Marks: 4.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Potassium accelerates the translocation of photosynthates from leave to tubers, increase higher root yield in sweet potato.

Reason (R) : The quality characters like starch and protein contents decreases with increase in potassium in sweet potato.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct.

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 85 / Question ID 1547

Marks: 4.00

Which pineapple cultivar has spineless leaves and is resistant to gummosis ?

- 1. Smooth Cayenne
- 2. Queen
- 3. Spanish
- 4. Abacaxi

☐ 1 (Chosen Option)

☐ 2

☐ 3

☐ 4

Question No. 86 / Question ID 1613

Marks: 4.00

Which of the following chrysanthemum cultivars were developed through induced mutation?

- (A) Birbal Sahni
- (B) Pusa Centenary
- (C) Pusa Kesari
- (D) Kundan

Choose the *correct* answer from the options given below:

- 1. (A) and (B) only.
- 2. (B) and (C) only.
- 3. (A) and (C) only.
- 4. (A) and (D) only.

☐ 1

☐ 2 (Chosen Option)

☐ 3

☐ 4

Question No. 87 / Question ID 1563

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Botanical Name	Vegetable Crop
(A) <i>Benincasa hispida</i>	(I) Lotus
(B) <i>Trapa natans</i>	(II) Winged bean
(C) <i>Nelumbo nucifera</i>	(III) Ash gourd
(D) <i>Psophocarpus tetragonolobus</i>	(IV) Water chestnut

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Match **List-I** with **List-II**

List-I	List-II
Site of Synthesis	Phytohormone
(A) Young leaves and buds	(I) Ethylene
(B) Roots	(II) Cytokinin
(C) Young fruits	(III) GA
(D) Old leaves	(IV) IAA

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
3. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
4. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)

Question No. 89 / Question ID 1617

Marks: 4.00

Make the correct sequence of steps involved in hybridization of flower crops?

- (A) Pollination
- (B) Emasculation of parents.
- (C) Choice and evaluation of parents.
- (D) Harvesting and storing of F_1 seeds
- (E) Bagging and tagging

Choose the **correct** answer from the options given below:

- 1. (C), (D), (E), (B), (A).
- 2. (A), (D), (C), (B), (E).
- 3. (A), (D), (E), (C), (B).
- 4. (C), (B), (E), (A), (D).

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 90 / Question ID 1519

Marks: 4.00

Given below are the two statements :

Statement (I) Ambred is cross between Red Delicious X Amberi

Statement (II) The Ambred tree is very dwarf

Based on these statement choose the **correct** option:

- 1. Both **Statement (I)** and **Statement (II)** are true.
- 2. Both **Statement (I)** and **Statement (II)** are false.
- 3. **Statement (I)** is true but **Statement (II)** is false. 
- 4. **Statement (I)** is false but **Statement (II)** is true.

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 91 / Question ID 1591

Marks: 4.00

Exposing seed to beneficial microorganisms is called as

1. Matrix priming
2. Hydropriming
3. Halopriming
4. Bio priming

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 92 / Question ID 1595

Marks: 4.00

Given below are two statements:

Statement (I) : Gigas and genome buffering effect exhibited by haploid plants

Statement (II) : In watermelon, there is no existence of parthenocarpy under natural conditions.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are correct.
2. Both **Statement (I)** and **Statement (II)** are incorrect.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. **Statement (I)** is incorrect but **Statement (II)** is correct.

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 93 / Question ID 1530

Marks: 4.00

- (A) KalpaSankara is coconut hybrid with cross between CGD and WCT
- (B) KalpaSankara is coconut hybrid with cross between MYD and WCT
- (C) High yielding
- (D) Tolerant to root (wilt) disease

Choose the *correct* answer from the options given below:

1. (A), (C) and (D) only.
2. (A), (B) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

- ☒ 1 (Chosen Option)
- ☐ 2

- ☐ 3
- ☐ 4

Question No. 94 / Question ID 1599

Marks: 4.00

Famous blue coloured variety ‘Moondust’ belongs to which of the following flower crop?

1. *Lilium longiflorum*
2. *Rosa hybrida*
3. *Dianthus caryophyllus*
4. *Tagetes erecta*

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 95 / Question ID 1566

Marks: 4.00

Given below are two statements:

Statement (I) : Worldwide tomato is mainly consumed as fresh vegetable (89%) and only ~11% is processed.

Statement (II) : Tomato genotypes suitable for processing require key parameters such as low TSS (< 5 °Brix) and minimum acid: sugar ratio (15:1)

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both **Statement (I)** and **Statement (II)** are true.
2. Both **Statement (I)** and **Statement (II)** are false.
3. **Statement (I)** is true but **Statement (II)** is false.
4. **Statement (I)** is false but **Statement (II)** is true.

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 96 / Question ID 1586

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Types of hydroponics	Functional Mechanism
(A) Wick system	(I) Plants stand in a shallow stream of water containing desirable nutrients.
(B) Ebb and Flow	(II) Net pot filled in a small quantity of clay pebbles
(C) NFT system	(III) Passive form of hydroponics
(D) Water culture	(IV) Periodic flooding and draining of the nutrient solutions

Choose the *correct* answer from the options given below:

- 1. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
- 2. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
- 3. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)
- 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 97 / Question ID 1587

Marks: 4.00

Which of the following onion variety is recommended for*khari*f season ?

- 1. Bhima Light Red
- 2. Bhima Kiran
- 3. Bhima Dark Red
- 4. Pusa Madhavi

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 98 / Question ID 1518

Marks: 4.00

Papaya hybrid free from typical papaya odour

- (A) ArkaPrabhath
- (B) Arka Surya
- (C) CO 5
- (D) Solo

- 1. (A), (B) and (c) only.
- 2. (A) and (B) only.
- 3. (A), (B) and (D).
- 4. (B), (C) and (D) only.

- ☐ 1
- ☒ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 99 / Question ID 1619

Marks: 4.00

Make the correct sequence of steps involved in the T- budding method of rose flower crop?

- (A) Incision of T shaped cut on the rootstock stem.
- (B) Selection and planting of rootstocks.
- (C) Insertion of scion wood in the T- cut on rootstock stem.
- (D) Selection and preparation of scion wood.
- (E) Wrapping of scion budded on rootstock stem with polythene.

Choose the **correct** answer from the options given below:

- 1. (A), (B), (D), (E), (C).
- 2. (A), (C), (B), (E), (D).
- 3. (B), (D), (A), (C), (E).
- 4. (D), (E), (C), (B), (A).

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 100 / Question ID 1596

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
(Garden Name)	(Location/state)
(A) Lalbagh garden	(I) Delhi
(B) AmritUdyan	(II) Tamil Nadu
(C) Sim’s Park	(III) West Bengal
(D) Llyod Botanical Garden	(IV) Karnataka

Choose the *correct* answer from the options given below:

1. (A) – (III), (B) – (IV), (C) – (II), (D) – (I)
2. (A) – (I), (B) – (II), (C) – (IV), (D) – (III)
3. (A) – (II), (B) – (III), (C) – (IV), (D) – (I)
4. (A) – (IV), (B) –(I), (C) – (II), (D) – (III)

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Sequence the Cross combinations of the apple rootstock

- (A) Malling 2 × Northern Spy
- (B) Malling1 × Northern Spy
- (C) Northern Spy × Merton 793
- (D) Northern Spy × Malling 2

Choose the *correct* answer from the options given below:

1. M.25 - M.111 - M.104 - M.106
2. M.111 - M.25 - M.106 - M.104
3. M.104 - M.106 - M.111 - M.25
4. M.104 - M.111 - M.106 - M.25

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Which of the following prostrate or trailing shrubs are suitable for planting in rock gardens?

- (A) *Lantana sellowiana*
- (B) *Ixora armeniaca*
- (C) *Juniperus horizontalis*
- (D) *Duranta plumeri*

Choose the **correct** answer from the options given below:

- 1. (A) and (B) only.
- 2. (A) and (C) only.
- 3. (B) and (D) only.
- 4. (A) and (D) only.

☐ 1

☒ 2 (Chosen Option)

☐ 3

☐ 4

Which of the following colours belong to soft cool colours in “Colour scheme”?

- 1. Red, orange and yellow
- 2. White, black and grey
- 3. Blue, violet and green
- 4. Red, white and green

☐ 1

☐ 2

☒ 3 (Chosen Option)

☐ 4

Which of the following is **not** a suitable breeding objective in cowpea ?

- 1. Determinate plant type
- 2. Early pod maturity
- 3. Photosensitivity
- 4. Wider adaptability

☐ 1

☐ 2

☒ 3 (Chosen Option)

☐ 4

First hybridization work in citrus was carried out at

- 1. Kodur
 - 2. Meghalaya
 - 3. Nagpur
 - 4. Chethali
- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4 (Chosen Option)

Question No. 106 / Question ID 1579

Marks: 4.00

Which of the following physiological disorder exhibit premature initiation of floral buds and elongation of peduncle in cauliflower ?

- 1. Ricyness
 - 2. Fuzziness
 - 3. Leafiness
 - 4. Whiptail
- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 107 / Question ID 1528

Marks: 4.00

Match **List-I** with **List-II**

List-I	List-II
Propagtion Method	Other name
(A) Marcottage	(I) Air Layering
(B) Stooling	(II) Mound layering
(C) Serpentine	(III) Compound layering
(D) Inarching	(IV) Attached grafting

Choose the *correct* answer from the options given below:

- 1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
 - 2. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
 - 3. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
 - 4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
- ☒ 1 (Chosen Option)

- ☐ 2
- ☐ 3
- ☐ 4

Match **List-I** with **List-II**

List-I	List-II
Characteristic	Fruit
(A) Fleshy peduncle	(I) Cashew
(B) Non climacteric	(II) Pomegranate
(C) Drupe	(III) Mango
(D) Synconium	(IV) Fig

Choose the *correct* answer from the options given below:

- (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
- (A) - (II), (B) - (I), (C) - (III), (D) - (IV)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Given below are two statements:

Statement (I) : Each Parasitoids requires only one host, which it kills for its development into a free living adult and are of same size as the host

Statement (II) : Where as predators are free living and often lager in size than their pray requiring several prays to complete their life cycle.

In light of the above statements, choose the *most appropriate* answer from the options given below.

- Both **Statement (I)** and **Statement (II)** are true.
- Both **Statement (I)** and **Statement (II)** are false.
- Statement (I)** is true but **Statement (II)** is false.
- Statement (I)** is false but **Statement (II)** is true.

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 110 / Question ID 1614

Marks: 4.00

What is the new name of 'Mughal Garden' of Rashtrapati Bhavan, New Delhi, India?

- 1. Amrit Vatika
- 2. Parmo Udyan
- 3. Amrit Udyan
- 4. Nandan Van

- ☐ 1
- ☐ 2
- ☐ 3 (Chosen Option)
- ☐ 4

Question No. 111 / Question ID 1590

Marks: 4.00

Which of the following grafting can be used in tomato if scion and rootstocks are of different thickness?

- 1. Cleft grafting
- 2. Splice grafting
- 3. Tube grafting
- 4. Tongue Approach grafting

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 112 / Question ID 1540

Marks: 4.00

Which Coimbatore series of Papaya is a selection from Washington?

- 1. Co-1
- 2. Co-3
- 3. Co-5
- 4. Co-7

- ☐ 1
- ☐ 2
- ☐ 3 (Chosen Option)
- ☐ 4

Question No. 113 / Question ID 1505

Marks: 4.00

Yearly sequence and spatial arrangement of crops and fallow on a given area is

1. Crop rotation
2. Cropping pattern
3. Cropping system
4. Double cropping

- ☒ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 114 / Question ID 1559

Marks: 4.00

Sequence the fruit crop according to the place of their origin

- (A) Indo Burma region
- (B) South East Asia
- (C) Black Sea – Caspian sea
- (D) Mesoamerica

Choose the **correct** answer from the options given below:

1. Grape – Mango – Papaya – Banana
2. Banana – Mango – Papaya – Grape
3. Mango – Banana – Grape – Papaya
4. Papaya – Grape – Mango – Banana

- ☐ 1
- ☐ 2
- ☒ 3 (Chosen Option)
- ☐ 4

Question No. 115 / Question ID 1514

Marks: 4.00

When the soil cover of the crop is about 70-80%, the crop coefficient is referred to as

1. Initial stage
2. Mid season stage
3. Crop development stage
4. Late season stage

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 116 / Question ID 1580

Marks: 4.00

Which of the following variety is suitable for early sowing in garden pea ?

- 1. Pusa Shree
- 2. Pusa Prabal
- 3. PalamPriya
- 4. ArkaAjit

- ☐ 1 (Chosen Option)
- ☐ 2
- ☐ 3
- ☐ 4

Question No. 117 / Question ID 1581 Marks: 4.00

In tomato cultivation, which of the following is used for fruit set under adverse condition ?

- 1. GA3
- 2. PCPA
- 3. Kinetin
- 4. IBA

- ☐ 1
- ☐ 2 (Chosen Option)
- ☐ 3
- ☐ 4

Question No. 118 / Question ID 1527 Marks: 4.00

Citrus rootstock incompatible with lime and lemon

- 1. *Citrus unshiu*
- 2. Rangpur lime
- 3. Karna Khatta
- 4. Trifoliate orange

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4 (Chosen Option)

Question No. 119 / Question ID 1576 Marks: 4.00

What is the chromosome number of Radish ?

- 1. $2n = 16$
- 2. $2n = 18$
- 3. $2n = 20$
- 4. $2n = 22$

- ☐

1
- ☐

2 (Chosen Option)
- ☐

3
- ☐

4

Match List I with List II according to the synonym used for the species

List I	List II
(A) <i>Vitis vinifera</i>	(I) Cat grape
(B) <i>Vitis labrusca</i>	(II) Sand grape
(C) <i>Vitis rupestris</i>	(III) Fox grape
(D) <i>Vitis palmata</i>	(IV) Wine grape

Choose the **correct** answer from the options given below:

1. (A) – (I), (B) – (III), (C) – (IV), (D) – (II)
2. (A) – (III), (B) – (IV), (C) – (I), (D) – (II)
3. (A) – (IV), (B) – (III), (C) – (II),(D) – (I)
4. (A) – (II), (B) – (I), (C) – (III), (D) – (IV)

- ☐

1
- ☐

2
- ☐

3 (Chosen Option)
- ☐

4

NATIONAL TESTING AGENCY
ICAR's All India Entrance Examination July 2023
Final Answer Key

Exam Date : 09.07.2023

Shift : FIRST

Subject : PG - HORTICULTURE (8)

Question ID	Correct Option	Question ID	Correct Option	Question ID	Correct Option
1501	3	1556	3	1611	2
1502	2	1557	2	1612	1
1503	1	1558	3	1613	2
1504	1	1559	3	1614	3
1505	2	1560	2&4	1615	4
1506	1	1561	2	1616	3
1507	2	1562	2&3	1617	4
1508	2	1563	4	1618	4
1509	3	1564	1	1619	3
1510	3	1565	1	1620	4
1511	4	1566	3		
1512	1	1567	3		
1513	3	1568	3		
1514	3	1569	3		
1515	4	1570	4		
1516	1	1571	3		
1517	1	1572	2		
1518	2	1573	2		
1519	3	1574	3		
1520	2	1575	1		
1521	1	1576	2		
1522	1	1577	3		
1523	1	1578	1		
1524	1	1579	1		
1525	1	1580	1		
1526	2	1581	2		
1527	4	1582	3		
1528	1	1583	4		
1529	1	1584	1		
1530	1	1585	1		
1531	2	1586	4		
1532	1	1587	3		
1533	2	1588	1		
1534	2	1589	2		
1535	3	1590	1		
1536	1	1591	4		
1537	2	1592	1		
1538	3	1593	1&3		
1539	1	1594	3		
1540	3	1595	4		
1541	1	1596	4		
1542	1	1597	3		
1543	2	1598	2		
1544	4	1599	3		
1545	2	1600	2		
1546	2	1601	4		
1547	1	1602	1		
1548	3	1603	4		
1549	1	1604	3		
1550	1	1605	1		
1551	1	1606	2		
1552	1	1607	3		
1553	4	1608	3		
1554	1	1609	4		
1555	3	1610	3		